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Access DB# 83380

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: MOLLY CEPERLEY Examiner #: 59757 Date: 12/27/02  
Art Unit: 1641 Phone Number 30 8-4239 Serial Number: 09/901466  
Mail Box and Bldg/Room Location: CM1-8D15 Results Format Preferred (circle) PAPER DISK E-MAIL  
CM1-7E12

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Fluorescein-based metal sensors

Inventors (please provide full names): Stephen J. Lippard, Shawn Burdette, Scott Hilderbrand,  
Roger Y. Tsien, Grant K. Walkup

Earliest Priority Filing Date: 07/09/01

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

- ① Please search the structure of claim 1 and the structure of claim 20. Note that the difference between the two structures is two -A-V groups (at 4' + 5') versus one -A-V group. If too many hits from -A-V defined broadly as -C-, you can limit A to definitions of claim 2 and V defined as the Lewis bases of page ~~34~~ <sup>34</sup>.  
Novelty should be in -A-V groups.
- ② Please be sure that a search includes the structures of each of claims 11 + 30 (should be included by ① above if A can be left as -C-). Include all isomers.
- ③ Please search the structures of claims 15<sup>+34</sup>, being sure to include the structure of claims 19<sup>+38</sup> (include all isomers).

The compounds are fluorescein derivatives used to detect metals, especially zinc.

POINT OF CONTACT:  
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## STAFF USE ONLY

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Searcher: _____	NA Sequence (#) _____	STN <u>1597/36</u>
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